**Formula Quiz**

1. What does a chemical formula represent?

The number and type of atoms present in a molecule of a substance

1. What is the chemical formula of water?

H2O

1. What does the subscript represent? Give an example (it can be anything as long as it works)

The number of each atom being represented. C6H12O6 There are 6 Carbons, 12 Hydrogens and 6 Oxygens.

1. What does the coefficient represent? Give an example (it can be anything as long as it works)

They multiply all the atoms in a compound instead of a single element. 7H2O There are 7x2 or 14 Hydrogens and 7 Oxygens.

1. On what side of a chemical equation are the products?

Right

1. On what side of a chemical equation are the reactants?

Left

1. What is the exception for subscripts? Give an example (it can be anything as long as it fulfills the exception)

If there are parentheses the subscript can represent multiple atoms. 7(CH3)3

1. A molecule has two carbons and four hydrogens. What is the chemical formula for this molecule?

C2H4

1. Draw a molecule and write out its chemical formula. (it can be anything as long as it is accurate)
2. True or False. The Law of conservation of mass states that atoms can only be rearranged during a chemical reaction. True
3. Balance the following chemical equations:
   1. 2KClO3🡪2KCl+3O2
   2. 1S8+8O2🡪8SO2
   3. 1Al2(SO4)3+3Ca(OH)2🡪2Al(OH)3+3CaSO4
   4. 2Al+3Br2🡪2AlBr3
   5. 2NaClO3🡪2NaCl+3O2
   6. 3AgNO3+1K3PO4🡪1Ag3PO4+3KNO3
   7. 3Ca(OH)2+2H3PO4🡪1Ca3(PO4)2+6H2O
   8. 2C6H6+15O2🡪12CO2+6H2O